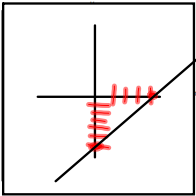


1) Use the x- and y- intercepts to graph $12x - 8y = 48$.

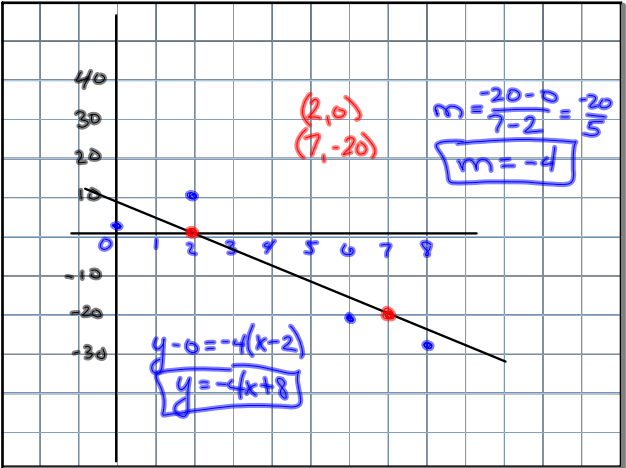
| Xint | Yint |
|-----------------------------------|-------------------------------------|
| $12x = 48$ $x = 4$ $(4, 0)$ | $-8y = 48$ $y = -6$ $(0, -6)$ |



2) Write an equation in slope intercept form for the line that contains the point $(0, -3)$ and is parallel to the line $5x + 4y = 24$

$$5x + 4y = 24$$
$$4y = -5x + 24$$
$$y = -\frac{5}{4}x + 6$$
$$y - (-3) = -\frac{5}{4}(x - 0)$$
$$y + 3 = -\frac{5}{4}x$$
$$y = -\frac{5}{4}x - 3$$

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1.) $4x + 4(2x - 1) = 20$

$$4x + 8x - 4 = 20$$
$$12x - 4 = 20$$
$$12x = 24$$
$$x = 2$$

2.) $3(2x - 4) = 3x - 5(x + 1)$

$$6x - 12 = 3x - 5x - 5$$
$$6x - 12 = -2x - 5$$
$$\frac{+12x}{8x - 12} = \frac{-5}{+12}$$
$$\frac{8x - 12}{8} = \frac{-5}{12}$$
$$8x - 12 = -\frac{40}{12}$$
$$8x = -\frac{40}{12} + 12$$
$$8x = \frac{-40 + 144}{12}$$
$$8x = \frac{104}{12}$$
$$x = \frac{13}{3}$$

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3.) $\frac{5}{x} + \frac{5}{2} = 2 - 3x$

$$-5x + 5 = 4 - 6x$$
$$+6x + 6x$$
$$x + 5 = 4$$
$$-5 - 5$$
$$x = -1$$

4.) $8(x + \frac{15}{8}) = \frac{3x}{4}$

$$8x + 15 = \frac{3x}{4}$$
$$-8x - 8x$$
$$15 = \frac{3x}{4}$$
$$\frac{15}{3} = \frac{x}{4}$$
$$x = \frac{15}{4}$$

HW
1.6 1-22
show all work

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